

# OCCUPATIONAL SURVEY REPORT



ELECTRONIC COMPUTER SYSTEMS SPECIALIST

AFSC 30554 .

AFPT-90-30X-222 15 Sep**tember** 1977

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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#### **PREFACE**

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Electronic Computer System Specialist, AFSC 30554.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Major Walter F. Kasper. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center



# ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT ELECTRONIC COMPUTER SYSTEMS SPECIALIST AFSC 30554

#### INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Electronic Computer Systems Specialist (AFSC 30554). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands. A

#### DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

#### **ADMINISTRATION**

The Electronic Principles Inventory was administered by mail to AFSC 30554 airmen worldwide. Responses from 350 individuals represented 46 percent of the total of all AFSC 30554 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	Al	2
2	DIRECT CURRENT AND VOLTAGE	A15	2
3	RESISTANCE	A24	2 2 2 3
4	MULTIMETER USES	B52	3
5	ALTERNATING CURRENT	B61	4
6	INDUCTORS AND INDUCTIVE REACTANCE	B67	4
7	CAPACITORS AND CAPACITIVE	C92	
	REACTANCE	0.5.2	5
8	TRANSFORMERS	C128	6
9	MAGNETISM	C171	7
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE	D229	
	(TIME CONSTANTS)		10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	11
15	RELAYS	E295	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	22
29	SPECIAL PURPOSE ELECTRON TUBES	J616	23
30	HETERODYNING, MODULATION, AND DEMODULATION	J632	23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	. 24

# TABLE 1 (CONTINUED)

## EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS LOGIC FUNCTIONS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS	L708	26
36	COUNTERIO	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION INPUT/OUTPUT DEVICES PHOTO SENSITIVE DEVICES	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	\$1149	41
57	SYNCHRONOUS VIBRATIONS	\$1150	
	(CHOPPER CIRCUITS)		41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	30	554
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
AFCS	37	33
ADC	27	30
TAC	11	11
USAFE	7	11
USAFSS	7	4
ATC	6	3
OTHER	5	8
TOTAL	100	100

Total Assigned - 766 Total Sampled - 350 Percent Sampled - 46

#### PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the seven selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Resistance (pp. 2-3) and Registers (pp. 39-40) to low in areas such as Transmission Lines (pp. 34-35). Additional AFSC 305X4 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

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PCT ASHS ALSPONDING ATES! BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION LATA FOR SELECTE, SHOUPS IN THE BOSEN LAREEF FLELD.

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GPSMI3 PAGE 2

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TASK GROUP JUNNAANY PERCENTING

CPSHIS PAGE 3

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	A3-18 DO 700 CALCUL	2.5	2.7	20	2.7	5.6		1.4	
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	A3-21 DO YOU CALC	3.7	A 100	2.7	3.9	39	9	29	
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	DG YOU CALCULATE POWER DISSIP	2.5	9.2	20	2.5	2.7	3.5	7.7	
	DU TO CALCULATE TOTA	9 0	0.0	2.7	2.2	1 2	4.4	6.5	
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PCI MAMS HESPONDING "YES" BY SELECTED GRPS

GPSH13 PAGE

TASK GROUP SUMMARY PERCENTING

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UY-15K	C 152 C2-25 D. TOU MEPER TO MULTIPLE SECONDARY-MINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS	-26 JO YOU H	NSFORMER	. x	C 156 C2-29 DG TOU REFER TO THON CORE SCHEMATIC STMBOLS FOR	1 >	CONDER TOU DE	N DE	TO OF A TRENS	SE OR REFER TO STEPHUP OR STEPHO		a a	-37 DOES YOUR	165 C2-38 DO TC. I	166 C2-39 DO YOU C	TOTAL TOTAL TOTAL THREE PHASE	69 C2-42 DO YOU RE	TRANSFORMERS C 170 C -+ 3 DO YOU REMOVE ON REPLACE THREE PHASE TRANSFORMER	171 C1-C1 DC TOU OSE ON REFER TO	00 10-10	MATERIALS C 174 CB-104 DO YOU USE ON REFER TO RELUCTANCE OF MAGNETIC	1	000	

TASK GHOUP SUMMARY PERCENTING

		RCL CIRCU			
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07-15x	179 C3-09 DO TOU USE ON REFER TO DOMAIN THEORY OF MAGNETISM INC. C3-10 DO TOU USE ON REFER TO MAGNETIC INDUCTION INC. C3-11 DO TOU USE ON REFER TO FLUX DENSITY THAT FOR MAGNETIC POLES, LIKE POLES REFEL AND UNLIKE POLES ATTRACT 183 C3-13 DO TOU USE THE LEFT HAND THUNG RULE TO FIND THE 183 C3-19 DO TOU USE THE LEFT HAND THUNG RULE TO FIND THE OIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WINES	POLE OF A CURRENT C   POLE OF C	CIRCUITS	343535353	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TASK GROUP SCHIPPAT

SPC	23 25 16 25 23 35 21	3 3 3 0 4 5	2 2 1 0 4 5 0	7 7 5 3 10 14 0		7 7 5 5 9 11 0	3 2 4 6	1 1	5 5 4 1 7 14 0	5 5 4 11 7 14 6	0 0 0	3 3 3 0 4 5	5 5 5 5 14	8 5 7 10 14 0	38 40 31 41 39 57 29	23 25 49			7 7 7 6 7 11 0	7 7 8 5 10 19 0	0 11 6 5 2 9 11 0	0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
UY=15x	D 204 DI-20 DO YOU USE OR REFER TO TANK CIRCUITS MMEN MORKING MITH RCL CIRCUITS	00 0	U 206 01-22 DO 700 ORAM VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGNAMS FOR CIRCUITS	U 207 01-23 DG YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE	200	U 209 DI-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SEMIES ACL	U 210 DI-28 DU TOU CALCULATE IMPEDANCE ANGLES FOR SEMIES ACL CINCUITS	U 211 GI-27 DG YOU CALCULATE APPARENT PONER (PA) FOR SERIES ACL CIRCUITS	D 212 CI-28 DC TOU CALCULATE TRUE POWER (PT) FOR SERIES RCL	D 213 D1-29 DO TOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS	D 214 DI-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS	D 215 DI-31 DU YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CINCUITS	O 216 DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE RETHOD	D 217 DI-33 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	218 D1-34 DO TOU	U 214 UI-35 DG TOD CHECK CAPACITORS USING SCHSTITCTION U 220 DI-36 DG YOU CHECK INDUCTORS USING CHAMPITERS	221 01-37 00 YOU CHEC	O 222 OT#38 DO TOU USE OF PEPER TO THE GENERAL RULE THAT THETAM O, PF # 1, AND PA # PT FOR RESOLARY CHROLITS			FREQUENCY FOR SERIES RCL CIRCUITS U-225 DI-41 DO YOU USE OF REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESOMANT	RULE	D 227 DI=43 DO YOU USE ON MEFER TO THE GENERAL PULE THAT	

TASK GROUP SURRAY PERFORMING

			SERIES AND PARALLEL RESONANCE (TIME CONSTANTS)							FILTERS															
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DY=15K	U 229 02-01 IN YOUR PHESENT JOBS ON YOU WORK WITHS USE, OR REFER	REFER TO TIME CONSTANTS	232 D3-04 D0 Y0U WORK WITH, USE, OR REFER TO TRANSLENT	D 233 D2-05 DO YOU USE OF HEFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHAFGED (OF DISCHARGED) AFTER FIVE (5)	D 234 D2-06 DU YOU USE ON REFER TO UNIVERSAL TIME CONSTANT CHARTS U 235 D2-06 DU YOU USE EQUATIONS ON FORMULAS TO DETERMINE CINCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC	TIME FOR KC OR LM CINCUITS  D.236 D2-08 DO TOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH REFERENCE MAINER AND NO UP VIDENITY	D 237 J2-04 DO TOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND COMPONENT VILLAGES TO REACH SPECIFIC VALUES IN SPECIFIC TABLES.	U 238 02-10 DU TOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LM CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE (5) TIME CONSTANTS	D 239 03-01 DO YOU WORK MITH CIRCUITS USED AS FILTERS IN YOUR	240 33-32 DO TOU INSPECT FILTER CIR	242 03-04 DO TOU ALIGN FILTER CIRCUI	33-05 DG YOU TRUUBLESHOOT TO TH	244 D3-06 DO TOO TROUBLESHOOT TO COMPON 245 D3-07 DO TOO REHOVE OR HEPLACE THE	PARTS	03-09 00 TUU WORK "ITH LOW PASS	C 248 D3410 DC 400 4078 4141 1161 PASS FILTERS	250 03-12 DO TOU MORK WITH BAND-REJECT	251 03-13	C ASA COLLEGE OF YOUR WITH T-SECTION FILTER CONFIGURATION	03-10	255 03-17 DOM'T PEMEMBER MHICH TYPE FILTER CONFIGURA	0 256 03718 DO THE FILTEMS YOU WORK WITH USE PAPALLEL RESONANT	C 257 DE 19 DO THE FILTEMS YOU WORK WITH USE SERIES-PARALLEL	U 258 03420 DO THE FILTERS YOU MORK WITH USE SERIES RESONANT CIACUITS	

PERCENT REMBERS PERFERING

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x27-40	0 259 03-21 DON*T HEMEMBER MHICH TYPE OF BASIC CIRCUIT U 260 D3-22 DO TCU USE EFUATIONS OF FORMULAS TO DETEMMINE CAPACITANCE OR INDUCTANCE VALUES REJUIRED FOR SPECIFIC FILTERS	E 262 E1-01 DO TOU MORK MITH COUPLING DEVICES IN YOUR PRESENT JOE E 262 E1-62 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH MC COUPLING	E 263 EI-03 DG TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL LIMCUITRY THE COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING	E 264 E1-09 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND HELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THANSFORMER COMPLING	65 E1-05 DU YOU MHICH PERFOR	E1-06 UG TOU	E. 467 E1-07 DO TOU TROUBLESHOOT CIRCUITS #FICH HAVE COMPONENTS.	MORK WITH OIRE	E 270 EI-10 DO 700 HORK MITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	EI-IZ DON'T PEMEMBER AHICH	273 EZ-01 IN YOUR PHESENT JOB, DO YOU PERFORM SOLDENING	274 62-02 00 700	275 E2-03 DO TOU ADD FLUX TO CO	E 278 EZ-04 UN TOU CLEAN CONNECTIONS USING SOLVENTS E 277 EZ-05 DO TOU STHIP INSULATION FROM MIRES	274 EZ-06 DO TOU CONNECT OR DISCONNECT H		281 EZ-09 DU TOU FILE OR SHAPE	E ABS EZ-11 DO TOU CLEAN SOLDERING TRON TIPS	284 E2-12 DO TOU CLEAN ELECTRIC	285 E2-13 00 TOU TIN OR PRE-TIN	E ABB EZ I DO TOU INSPECT SOLDERED CONNECTIONS	288 E2-16 DO YOU DESOLDER COMME	89 EZ-17 DO TOU CUT COMPONENT LEADS TO	E 290 E2-18 DO TOU CRUSH COMPONENTS FOR REMOVAL

TASK GROUP SUMMARY PERCENT MEMBERS PERFURNING

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DY-75K	MAKE HARDW	CAPACITORS ON PRINTED CIRCUIT BOARDS E 294 E2-22 DO YOU SOLDEM ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	295 E3-DI DO YOU WORK WITH RELA	246 63-02 00 100	E 497 E3-03 DO YOU CLEAN RELAYS	299 E3-05 DO TOU REHOVE ON REPLACE COMPLETE	£3-00 DO	301 E3-U7 DG TOU TROUBLESHOOT REL	102 E3-08 DO YOU STRAIGHTEN RELAY CONTAC		305 E3-11 DO YOU PERFORM TASKS ON	JUG E3-12 DO YOU PERFORM TASKS ON RELAY	7 £3-13 DO YOU	303 E3-14 00 YOU USE OR REFER TO	1 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW	(SPST),	-	(SPOT) SCHEMATIC SYMBOLS FOR RELAYS E 311 E3-17 DO YOU USE OM REFER TO DOUBLE POLE, DOUBLE THROW	(UPD1) SCHEMATIC STABOLS FOR RELATS 1 412 F3-18 DO YOU USE OF PEFFR TO DILER RELAY SYMBOLS SCHEMATIC	STHBOLS FOR RELAYS	E 313 E3-14 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY	F 314 FILLI TH YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS DEALING		315 11-04 00 100	316 71-03 00 100	THE PERSON THE PROPERTY AS FAR AS CHECKING THE	PAHTS OF HICHOPHONES	F 314 F1-04 DO YOU YROUBLESHOOT DOWN TO MICHOPHONE PERING	FILCH UD YOU REHOVE OR MEPLACE	322 FI-UP DO YOU PERFORM TASKS ON	FI-ID DO YOU PERFORM TASKS ON	FI-11 DO YOU PERFORM TASKS ON	F 325 FI-12 DO YOU PERFORM TASKS ON VELOCITY RIBACK MICROPHONES	יים בער

TASK GROUP BURKAHY PERCENT REMARKS PERFURMING

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U-15K	F 327 F4-UI IN TOUR PRESENT JOB: DO TOU PERFORM ANY TASKS DEALING	326 62-02	F2-04 DS TOU OPLRATE SPEAKERS	Jal FZ-05 00 YOU TROUBLESHOOT AS FAP AS CHECKING	PARTS OF SPEAKING	JAZ FZ-LO DU TOU TROUBLESHOOT DONN	333 F2-07 DO YOU REHOVE OF REPLA	334 F2-08 DU TOU NEHOVE OR REPLACE	135 FZ-UP DO TOU PEHFORM ANY TASKS ON SPEAKEH	336 FZ-10 DO TOU PERFORM ANY TASKS ON SPEAKER	JAT FEET DO TOU PERFORM ANY TASKS ON SPEAKER FIELD	and relia to too restors any lasks on Speaker voice Colls	FZ-14 DO YOU PEMFORM ANY TASKS ON SPEAKER	F2-15 DO TOU PERFORM ANY TASKS ON SPEAKER	F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRE	CHECKS	+ 344 F3-03 DO YOU USE OSCILLOSCOPES TO PEHFORM ALIGNMENTS OR	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	C18Cu11S	13-US DG TOU USE USCILLUSCOPES	F3-06 DO YOU USE USCILLUSCOPES TO MEASURE	F3-07 DC YOU USE OSCILLOSCOPES TO OBSERVE		AND THE SEC TOWNS OF STREET OF STREE	MEASUREMENTS USING DELLY TIME -UL	351 F3-10 UO YOU USE OSCILLUSCOPES TO	STORY OF THE STORY OF THE STORY		354 61-01 00 900 HORK #17H SEMICONDUCTOR DIDD	976	155 41-02 00 100	ASS STATE OF TOUR PEROVE OF REPLANT	357 GI -GT OF THE CALLEY DIODES USING AN INSTRUMENT	U 354 91-05 DO TOU USE ENERGY LEVEL DIAGRAMS IN YOUR MORK WITH UTCOLOSES		O PEVERSE BIAS	4 350 GI-U7 DO YOU COMPUTE FORMARD OR REVENSE BIAS RESISTANCE FOR	0100€5

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

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		07-15k	5 P.C 201	202	SPC 203	SPC 204	205	SPC 206	5PC 207	
0	100	GI-08 DO YOU USE ON REFER TO THE GENERAL	21	53	9	6.2	1,	5.4	20	
9	362	TEMPERATURE CAN AFFECT THE OPERA GI=09 DO YOU IDENTIFY SEMICONDUCT OTHEN ELECTHONIC COMPONENTS, SUC	1,	12	69	0.80	2,	5	9	
0	363	THE 18 PH	01	0	•	13	<b>6</b> 0	9	1	
0	30		5.8		15	6.2	5.	9	7	
0	365	RESISTANCE GIOR REFER TO DIODE COLOR CODING	33	35	77	5.0	3.	35	2,1	
,		S GI-13 DO TOU USE OR REFER TO CENTRIFUGAL FORCE OF AN	7	-	7	0	•	,	0	
,	367	GI-14 DO TOU USE OR REFER	7	-	7	0	•	٣	0	
0	30.8	9	5.8	09	53	23	62	23	7.4	
2	695	AS IN 538 STOUTS OR REFER TO KINETIC ENEMEY OF AN ELECTHON	~	2	•	0	5	٦	0	
3	370	MUVING IN OXBIT	٦	~	•	3	•	~	С	
,		ELECTRON HOVING IN ORBIT	5.9	0 9	5.3	5.8	4	62	5.7	
, .		RESISTANCE GET ON REFER TO NUMBER OF ELECTRONS IN A	7	~	*	~	J.	~	٥	
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,	377	51-24 00 700 U	69	11	62	16	7.3	9	9,3	
,	378	SI-25 DO TOU NEED TO KNOW WHICH	2.2	22	22	5	22	•	1	
.7	119	CONSTRUCTION OF DIODES SUCH AS GERMANIUM ON SILICOM  GLI-20 DO TOU MELD TO KNOW THAT SEMICOMBUCTORS MAYE MEGATIVE TEMPERATURE COFFICIENTS OF MESISTANCE (AS TEMPERATURE	56	5.	97	מ	52	30	2.1	
9	380	14CHEASES RESIS	=	=	Ξ	2	Ξ	=	~	
9	8	9	40	0.	•	20	*	8	90	
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TASK GROUP SUMMANY

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	3 61-30 Do YOU USE SEMICONDUCTOR HA	SEMICONDUCTOR MA	6 385 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTUR MATERIALS	G 3H6 G1-33 DO TOU USE OR PEFEN TO ELECTHON-HOLE PAIN CREATED IN SEMICONDUCTURS	SEMICONDUCTOR	SEMICONDUCTOR	SEMICONDUCTOR	61-37 DG YOU USE ON NEFER TO	SEMICONDUCTORS ON MEFER TO MAJORITY CARRIERS IN	6 393 GI-40 00 YOU USE OF PEFER TO MINORITY CARRIERS IN SEMICOLOUCTORS	G 394 G1-41 DG YOU USE ON REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	9		GI-44 DO TOU US RESISTANCE HAT	3 9 8	INFORMATION		01-48 DO 700 US		GI-50 DO YOU USE ON HEF	. 404 62-01 00 700 MORK #ITH TRANSISTORS IN YOUR PRESENT JOB.	62-63 00 100	108 GZ=05 00 100 CHECK TRANSISTORS USING AN INSTRUMENT	EVERSE RESISTANCE MEASUREMENTS	404 92706 DO TOU USE ON REFER TO COLLECTOR - 845E (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS

TASK GROUP SUMMARY

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DY-75K	6 410 62-07 DO YOU USE ON REFEN TO ENITTER - COLLECTOR (EC)	G 411 G2-00 to YOU USE ON PEFER TO HOW BIASING AFFECTS THE PHYSICAL MARKER WITH OF THE CHITTER . MASS JUNTION	44.1	G 413 GZ*10 DO YOU USE ON REFER TO THE PHYSICAL SIZE OF THE THEANSISTON STRUCTURE FOR THE PHYSICAL SIZE OF THE	G 414 GZ-11 DG YOU USE OR REFER TO LEAKAGE CURRENT (1080) IN A	TOU USE OR REFER TO	416 GZ-13 DO YOU USE OR REFER TO THANSISTOR	41, 42, 43, ETC	INFORMATION G WEEFER TO THE GENERAL RULE THAT THE	TRANSISTOR BASE CURRENT IB 15 NORMALLY SIGNIFICANTLY SMALLER THAN THE EMITTER CURRENT IE (USUALLY 18 BEING 2 TO	8 PERCENT OF 16)	G 419 G2-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR	G 420 G2-17 DO TOU DSE THE GENERAL RULE THAT LEAKAGE CURRENT ILCHG) IN A THANSISTOR INCREASES AS TEMPERATURE INCREASES	O YOU USE ON REFER TO TRANSISTOR CHARACTERISTIC	COMMES	G 422 GZ-17 DO TOU USE OF REFER TO BETA TRANSISTOR GAINS	424 62-21 DG 700 USE ON REFER TO	425 62-22 00 700 CALCULATE 8	426 52-23 DO YOU CALCULATE ALPHA TRANSISTOR	G 427 GALET DO TOU CALCULATE GARRA INANSISTOR AMPLIFIERS IN YOUR	PRESENT JOS	TANA STATE OF THE	431 63-04 00 101	432 63-05 00 160	YOU REMOVE	S - C - C - C - C - C - C - C - C - C -	G 435 G3-CA DO TOU OSE OR REFER TO (CORNOR EMITTER) THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE CHARRENT	6 436 63-69 DO YOU USE CH REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURNEMT MHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	

PET MURS "ESPENDING TYEST BY SELECTED GHPS

TASK GROUP SUMMANT PENCENTING PERCENT MEMBERS PENECHAING

	0Y-15K	202	202	203	5 P.C.	5 P C	SPC 206	5 P C
5	, 437 63-10 DO YOU USE ON REFER TO ICOMMON ENITTER! THE CHANGE IN COLLECTOR VOLTAGE MHICH RESULTS FROM A CHANGE IN BASE CUMPENT	21	7	2.2	70	27	5.	30
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	448 63-21 DO YOU CALCULATE THE VOLTAGE GAIN THANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN COLLECTOR	'n	*	7	~	ao	m	٥
,	CONTENT TO DETERMINE THE CURRENT GAIN  449 G3-22 DO TOU CACCULATE THE POWER GAIN FOR A SPECIFIC THANSISTON USING A FORMULA THAT IS, DO TOU MULTIPLY THE COMPANIT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE PUREN SAIN	~	٣	so.	m	un.	-	D
3	450 63-43 DG YOU REED TO KNOW THAT HORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT [43 OF THE TRANSISTOR)	œ	^	=	٠	0	<u>*</u>	D
1		n	•	,	r	7	٩	Ci
,	452 43145 DC 700 DENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CHROCOLITRY THE COMPONENTS ASSOCIATED WITH RELITER (SWAMPING) PROFITED ATABLETS ATTACHED ATACHED ATACHED ATACHED	6 -	<u>-</u>	7	9 1	24	5.4	7.1
*	#53 43-46 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH SELF-	•	2	9.7	=	50	0	7

TASK GROUP SUMMANY PERCENT MEMBERS PERFURMING

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12 - 75 K		455 G3=28 DO YOU IDENTIFY ON SCHEMATIC DIAGNAMS AND THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED FOLLOWING STATES AND THE ACTUAL STATES ASSOCIATED FOLLOWING STATES ASSOCIATED FOR STATES ASSOCIATED	456 43-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND COLUMN ACTUAL CARCULATION THE ACTUAL CA	457 63-30 00 YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED	DOUBLE DIDDE STABILIZATION 458 G3-431 DO TOU TROUBLESHOOT CHECUITS WHICH HAVE COMPONENTS ALLILL DEPENDENT FR CALLEDIAL PERSISTOR STABLET TALLION	#59 43-120 TO TROUBLESHOOT CROUITS WHICH HAVE COMPONENTS WHICH PERFORM COMPONENTS	1 2		462 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMMICH PERFORM REVERSE BIAS 5/00E STABILIZATION	463 63-36 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	AFILE FERFORM DUCKLE DIODE STABLLICATION 464 63-37 DO YOU LOENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR	CIRCUITS 465 G3-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS	CAUSES OF AMPLITUDE DISTORTION 466 G3=39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR	CIRCUITS 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR	CIRCUITS 468 63-41 DG YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	0	CADSES OF PERGUENCY DISTORTION CADSES OF YOUN REED TO KNOW THE DEGENERATIVE EFFE CIRCUIT CAUSED BY CHANGING EMITTER MESISTANCE THANSISTON AMPLIFIERS IN THE COMMON COLLECTOR	CONFIGURATION 471 G3-44 DC YOU DETERMINE THE CLASS OF OPERATI	AMPLIFIERS !	472 43-45 00 YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS 473 43-46 DU YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	63-47 DO TOU TROUBLESHOOT OR	CHROITS

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TASK GHOUP SUMMERY PENTONNING PENTONNING

			SOLID-STATE SPECIAL PURPOSE DEVICES						POWER SUPPLIES																												OSCILLATORS	
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OY-15K	43-49 DC YOU TROUBLESHOOT OR REP.	HI-UI DO YOU USE OR REFER TO HI-UZ DO YOU USE OR REFER TO	479 41-03 DO YOU USE OR REFER TO FIFL 480 41-09 DO YOU USE OR REFER TO USE	461 H1-05 DO YOU USE OR REFER	482 HI-DE DO YOU USE ON REFER TO INTE	483 HZ-31 IN YOUR PRESENT JOB, DO YOU	THE TATES OF THE INSPECT POWER SUPPLIE	72-03 DO TOU CLEAN POWER SUPPLIES	467 HZ-05 DC YOU THOUBLESHOOT TO POWER	488 42-06 00 700 TRUUBLESHO	THE TENT OF TOUR MEMOVE OR REPLACE COMP	140 ADD ADD ADD ADD A 164 AND ADD ADD ADD ADD ADD ADD ADD ADD ADD	H2-10 DO 700	E RECTIFIERS	HZ-11 DO TOU WOAK WITH BRIDGE RECTI	494 H2-12 DO YOU WORK WITH THREE-PHASE	495 HZ-13 DG TOU USE ON REFER TO	496 HZ-14 DO TOU USE OR REFER TO INDUT	447 HZ-15 DO TOU USE ON REFER TO PEAK	THE METER TO TOU USE UN REFER TO	THE HATTH NO YOU US! ON REFER TO KIND	HAZELO DO YOU USE ON MEREN TO MIPPLE PREQUENCY	302 HZ-20 Do You US! OR REFER	H2-21 DO YOU USE OR REFER TO FFEFCT	SU4 H2-22 DO YOU WORK WITH CIRCUITS "	FILTERS	H 505 H2-23 DO YOU MOKK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	H 506 H2-24 DO YOU MORK MITH CIRCUITS WHICH EMPLOY CAPACITIVE	INPUT L-TYPE FILTERS	INPUT I TYPE ELLIPS	H SUR H2-26 BO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	FILTERS	A 509 HZ=27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY KC PI-TYPE FILTERS	H SIG HZ-ZB DO YOU NORK WITH CIRCUITS WHICH EMPLOY DON'T			H SIZ H3-UI DO TOU MORK WITH OSCILLATORS IN YOUR PRESENT JOB	

HET MARS RESPONDING TYES! BY SELECTED GRPS TASK GROUP SUMMARY PERCENT HEMBERS PERFURMING

SPC SPC SPC SPC SPC SPC SPC 201 202 203 204 205 206 207	47 46 51 50 46 51 43 47 46 54 43 44 54 50 34 32 43 31 32 49 29 47 46 50 50 43 50 35 34 41 34 46 29 30 30 27 35 32 32 21	25 32 27 28 24 16 26 17 19 14 24 28 22 27 29 14 24 28 22 27 29 24 19 9 11 11 11 11 11 11 11 11 11 11 11 1	28	56 58 50 68 55 57 71 58 53 54 51 57 MULTIVIBRATORS  39 37 47 39 42 38 29 59 43 45 55 55 59 60 46 43 36 47 49 44 58 43 43 36 57 45 43 43 43 43 43 43 43 43 43 43 43 43 43
A21-19	2000000	(FDD)	530 H3-19 00 TOU WORK WITH OSCILLATORS WHICH USE R 531 H3-20 DU TOU WORK WITH OSCILLATORS WHICH USE C 532 H3-21 DO TOU WORK WITH OSCILLATORS WHICH USE D 532 H3-21 DO TOU WORK WITH OSCILLATORS WHICH USE D 533 H3-22 DO TOU WORK MITH SERIES HARTLEY SINUSOIDA 534 H3-23 DO TOU WORK MITH SHUNT HARTLEY SINUSOIDA 535 H3-24 UO TOU WORK MITH COLPITTS SINUSOIDAL OSCILL 536 H3-25 DO TOU WORK MITH BUTLER SINUSOIDAL OSCILL 538 H3-25 DO TOU WORK MITH BUTLER SINUSOIDAL OSCILL 538 H3-25 DO TOU WORK MITH BUTLER SINUSOIDAL OSCILL 538 H3-27 DO YOU WORK MITH BUTLER SINUSOIDAL OSCILL 538 H3-27 DO YOU WORK MITH DON'T REHEMBER WHICH TY	

TESK GROUP SURHAAT PERCENT MEMBERS PERFORMING

												LIMITERS AND CLAMPERS										ELECTRON TUBES																				
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U*-TSK	I SHE II-IU DO YOU MORK WITH MULTIVIBRATORS WHICH CONTAIN MC	1 549 11-11 DO YOU WORK WITH HULTIVIBRATORS WHICH CONTAIN CAYSTALS	1 550 11-12 DG TOU MORK MITH MULTIVIBRATORS WHICH CONTAIN DON'T	-	52 11-14 00 YOU WORK WITH MONOSTAR	53 11-15 DO TOU WORK WITH HISTAM	54 11-16 EU YOU WORK WITH DON'T R	MULTIVIBRATORS	-01 00	PRESENT JOB	-02 DO YOU WORK WITH SERIES	57 12-03 DO 100 mork with	THE STATE OF THE S		I STATE THE WORK WITH COMPANY	SA 12-US DO YOU WORK WITH MASTO DIDDE CLAMBING CIR	63 12-09 BO YOU WORK WITH GIOUE	54 12-10 DO YOU WORK WITH	I SAS 13-01 IN YOUR PRESENT JOB, DG YOU MONK ON ENUIPMENT WHICH	CONTAINS ELECTRON TUBES	1 564-13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD	13-03 00 100 USE TUBE TESTERS	13-C4 DO YOU USE MULTIMETERS T		13-Us Do You USE SUBSTITUTION	1 572 13-08 DO YOU USE OR MERER TO PEAK INVERSE VOLTAGE PATING	13-09 DO YOU USE ON REFER TO PEAK CURRENT	13-10 DU TOU USE OR REFER TO T	13-11 00 100 USE OR WEFER TO P	1 576 13-12 DO YOU USE OF REFER TO SATURATION	Tally Do You County Actual Co	RESISTANCE FOR FLECTRON TIMES	579 13-15 DO TOU USE OR REFER TO P	13-16 DO YOU USE OF REFER TO P	SBI 13-17 DO TOU USE OF REFER TO GRID	13-18 DO YOU USE OF HEFER TO G	583 13-19 DO YOU USE ON HEFER TO C	4 13-20 00 YOU USE ON REFER TO C	65 13-21 DG 100 USE OR REFER TO THE TRIODE AMPLIFICATION OF THE PROTOS IN DEFINED A	TANGE IN PLATE	JL 14 GE)	

PCT MBRS RESPONDING 17ES! BY SELECTED GRPS

GPSHI3 PAGE 22

TASK GHOUP SUMMANY PERFORMING

																							FI FCTRON THRE AMPLIFIERS	AND CIRCUITS
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DY=15K	SAB 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	587 13-23 DO YOU USE OR REFER TO HULTIGRID (TETRODE, PENTODE,	588 13-24 DO TOU USE OR REFER TO ELECTROM TUBE TRANSCONDUCTANCE	-	590 13-26 DU YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER	591 13-72 00 TOU CALCULATE ACTUAL VALUES OF AC PLATE	592 13-28 DU VSE ON REFER TO ELECTRON TUBE INTENELECTRODE	593 13-29 ON USE OR REFER TO CHARACTERISTIC CURVES IN YOUR	DO YOU USE CHARACTE		SOURCE OF A SPECIFIED BIAS SOURCE TO SELECT BIAS DECISION OF STATEMENT	197 13-33 00 YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	REGULARD FOR SATURATION 598 13-34 DG TOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN 597 13-35 DG TOU USE OR REFER TO ELECTRON TUBE AMPLIFIER	ELUCINCY ELUCISTAD DE TEST TUBE CHECKERS TO DETERMINE ELECTRON	THE AMPLIFIER GAIN SET 13-23 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE	602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE		SCH 13-40 DO YOU CALCULATE ANY ELECTHON TUBE CAPACITANCES SUCH	AS IMPUT CAPACITANCE ASS 13-41 DO YOU US. OF MERCH TO THAN SOCKET NOTATION	13-42 DC YOU USE ON HEFER TO PIN	607 13-43 00 YOU USE UM REFER TO THE TYPE OF MATERIAL OR THE OPLING TEMPLATURE OF THE EMITTING SURFACE IN THE	ELECTRON TUBES TOU AGKS ON  608 13-44 DR YOU USE OF PERER TO TUBE SURSTITUTION MATERIAL  5.04 AS MANUALS OF PERER TO		SID SID STATEMENT THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN SMOER TO TROUBLESHOOT AMPLIFIER CIRCUITS

PCI "545 KESPONDING TEST BY SELECTED GRPS

GPSMI3 PAGE

GROUP SURMANY

MODULATION, AND SPECIAL PURPOSE ELECTRON TUBES HETERODYNING, DEMODULATION 000 10 5PC C 0 0 C -3 1 V 2 3 V V C 000 000 200 000 0 0 2 30 0 0 0 22 • 7 7 M - - T 0 N 0 0 0 **® F** 0 5PC . a 13 3 7 no our ody 000 204 0 35 10 3 22 30 4 2 38 39 757797 5PC 203 2 0 0 0 22 54 77 00 80 00 0 -0 -SPC 202 2 9 0 . 52 22 23 222 7 -201 15 2,1 0 54 23 53 -00 0 0 0 619 J2-04 DG YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAN OR REPAIR JON'T KNOW WHICH TYPE All ol-53 Do Tou Troubleshoot of Repair Paraphase amplifiers old ol-54 Do Tou Troubleshoot of Revair Push-Pull amplifiers old ole-55 Do Tou Troubleshoot of Revair Compound-Connected ELLCTRON GUNS OF CATHODE-RAY TUBES (CRT)
623 J2-88 DO YOU USE OF REFER TO THE PRINCIPLES OF OPERATION
ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES 624 JZ-69 DO YOU USE OF REFER TO THE PRINCIPLES OF OPERATION ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES JZ-UT DO YOU USE ON HEFER TO THE PRINCIPLES OF OPERATION OLZ UZ-UZ UD 100 MOHK WITH CATHODE-WAY TUBES OLG UZ-US UD 100 USE ON HEFER TO THE CHAPACTERISTICS OF BEAM USE OR REFER TO THE HETERODYNING OF SIGNALS DO YOU PERFORM TASKS ON PRESENDENTING DO YOU USE OR REFER TO THE METERODYNING DO YOU USE OR REFERS ON RECEIVE SYSTEMS DO YOU PERFORM TASKS ON RECTANCE MODULATORS ON TO YOU PERFORM TASKS ON MODULATED OSCILLATORS ON TO YOU PERFORM TASKS ON MODULATED SYSTEMS IN TO YOU MORK ON AM TRANSMIT ON RECEIVE SYSTEMS OR HEPAIR CASCADE-CONNECTED 521 JZ-06 DO YOU THOUBLESHOOT OR HEPAIR CIRCUITS IN WHICH THEFER TO PERSISTENCE
TO REFER TO DECAY TIMES
THEFER TO FLUORESCENCE
THEFER TO PHOSPHONESCENCE
ON TRANSMIT OF RECEIVE SYSTEMS IN 620 J2-US DO YOU USE UN REFER TO THE CHAPACTERISTICS OF ò U 615 J2-J1 DO YOU MORK AITH GAS TURES (HOT CATHODE REFER TO PHOSPHOR SCREENS REFER TO AQUADAG COATINGS REFER TO ELECTRON OPTICS 614 JI-U6 DO YOU TROUBLESHOOT JI-07 UD TOU THOURLESHOOT PONER TUBES AKE USED TATRATHONS ARE USED 2 0 0 \* \* \* \* \* USE 0 USE OF AMPLIFIER 2222222 PURER TUBES 208 AMPLIFIENS AMPLIFIERS THYRATHONS CATHODE 13-05 00 13-06 00 00 13-04 00 PHESENT 00 70-60 IN YOUR PHE 56 147 CRT 32-11 32-12 32-13 75-10 75-14 75-15 13-01 75-16 13-03 10-1× 633 629 035 638

AM SYSTEMS

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YOU INSPECT AN TRANSMIT ON RECEIVE SYSTEMS YOU CLEAN AN TRANSMIT OR HECEIVE SYSTEMS YOU ALIGN OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS

639 K1-02 DD

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

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0x-15k	x 642 KI=05 00 YOU TROUBLESMOUT TO AN TRANSMIT OR RECEIVE SYSTEMS x 643 KI=06 DG YOU TROUBLESMOOT TO AN TRANSMIT OR RECEIVE COMBONITY.	20	A 645 KIND OF YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	SAS KI-UP DO TOU PEHFORM TASKS ON RE	A 647 KI-ID DO YOU PEHFORM TASKS ON RE AMPLIFIERS	AC SASA THOUSAND TO SEE ON THE SASA	650 KI-13 DU YOU PERFORM TASKS ON LOCAL	A 651 A1-14 DO YOU PERFORM TASKS ON IF AMPLIFIERS	KI-16 DO TOU PERFORM TASKS ON	USE OR REFER TO AMPLIT	TRANSMITTERS	TALESMITTERS	656 KI-19 DO YOU USE OR REFER TO SENSITIVITY OF	557 KI-20 DG 10U USE OR REFER TO	A 658 KI-KI DO 100 05E OR REFER TO AND MARKONIC DISTORTION K 659 KI-KZ OU 700 05E OR REFER TO BANDPASS DISTORTION	.60 KI-23 DO YOU USE OR REFER TO	KI-44 DO YOU USE OR REFER TO	62 x1-25 00 YOU USE OF	INAGE REJECTION PATIOS		X 665 ALTER SCHEMATIC DIRECTOR PATHS THROUGH AN	A 666 A2-01 DO TOU MORE AITH EN THANSHIT ON HECEIVE SYSTEMS IN	YOUR PLESENT JOB	10-12 . 199	K2-04 DO YOU ALIGN BY THANSHIT OR	670 K2-05 DO TOU TROUBLESHOOT TO FH TRANSHIT O	SYSTEMS SYSTEMS NO THOMBESHEST TO FM THANSHIT ON RECEIVE	CUMPONENTS	K 672 K2-07 DO YOU REMOVE OR REPLACE FM TRANSHIT OR RECEIVE	A 673 KZ-UB DU TOU PENOVE ON MEPLACE FM TRANSMIT ON RECEIVE	COMPONENTS	675 K2-10 DG TOU PERFORM TASKS ON

FM SYSTEMS

TASK GRUUN SUNNANN TEN TE TENER

											NIMBERING SYSTEMS											LOGIC FUNCTIONS												
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D1-15k	R 076 K2-11 DG TOU PERFORM TASKS ON ORIVERS (INTERMEDIATE	A 573 A2-12 DO YOU PENFORM TASKS ON PONER AMPLIFIEMS	679 K2-1" DO 100 PEHFORM TASKS ON F	680 KZ-15 DO TOU PEHFORM TASKS ON	681 K2-16 UN TOU PERFORM TASKS ON	642 X4-17 00 100 184504 145KS 03	A BEST KRIIS OF YOU TRACE SIGNALS OF CURRENT PAINS INKOUGH SCHEMATIC DIAGRAMS OF FE TRANSHITTERS	TRACE S	CONVERT DECIM	(BASE 6) NUMBERS  A ARE NAME OF YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	NUMBERS	K3-03	AND AND DO YOU CONVENT OF ALL NORDERS TO	K3-06 DO TOU CONVEHT	691 K3-07 DU YOU ADD BINARY NUMBERS TO GET A SUM	*3-08 00 100 SUBR	CARRY HETHOD . CARRY HETHOD . CARRY HOWERS USING THE UIRECT	SUBTRACTION		-	L 696 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	OR GATES LI-03 DO TOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS	OH GATES	L 698 LI-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR CACLOSIC	3	SYMBOLS ON GATES 1 703 LI-06 DO YOU USE ON REFER TO TRUTH TABLES FOR AND LOGIC	STHBOLS OF GATES	L 701 LI-07 DO YOU USE ON REFER TO TRUTH TABLES FOR ON LOGIC	-08 DU TOU USE OF REFER	L 703 LI-U9 DG TOU USE ON PEFER TO TRUTH TABLES FUR EXCLUSIVE OR	Louic symbols	TOTALLITIES OF TOUR SETTEM TO LOGIC STHEOLS FOR AND GATES	LI-12 DO YOU USE OR REFER TO LOGIC STRBOLS FOR	GATES

PCT MBRS KESPONDING . YES! BY SELECTED GRPS

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

GPSH13 PAGE 26

			BOOLEAN EQUATIONS																					
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νχ-15x	L 707 LI-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE	L 708 LZ-01 IN YOUR PRESENT JOB, DO YOU PEHFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS		L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC	L 711 LZ-04 DG YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN	712 L2-05 DG YOU MEASURE INPUT	PROCESS	U	L 215 L2-UB DU YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES	OR HEFER	L 717 L2-10 DO YOU USE O REFER TO LOGIC DIAGRAMS CONSISTING OF		DO TOU TRACE DATA FL	L 723 L2-13 DO FOU WORK WITH ASTABLE (FREE RUNNING)	L 721 L2-14 DO TOU MORK MITH BISTABLE (FLIFFELOP) MOLTIVIBRATORS L 722 L2-15 DO TOU MORK MITH MONOSTABLE (ONE-SMOT) MITTINGBATTORS	L 223 L2-16 DO TON USE OF REFER TO FLIP-FLOP HULTIVIBRATOR STABLES	L 724 LZ-17 DO TOU USE UM MEFER TO SINGLE-SHOT MULTIVIBRATOM	725 LZ-18 DO YOU USE OF HEFER TO	L 727 L2-20 DO 700 USE OF REFER TO FLIP-FLUP TRUTH TABLES	THEOLS TOU USE OF REFER TO	SYMBOLS AND ASSESSED STREET		L 731 L2-24 DO TOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-	L 732 L2-25 DO TOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP

TASK GROUP SURMANY DEPOSENT ACTION OF PERFORMENCE

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07-15K		L 744 L3-12 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP- FLOWS L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	HING COUNTERS  L 742 L3-15 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF  SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE MEGISTER  L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF  SHIFT REUISTERS  L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF  1749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF  1750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT	751 L3-19 DO TOU COMPUTE THE BINARY COUNT AFTER 751 L3-19 DO TOU COMPUTE THE BINARY COUNT AFTER 752 L3-20 DO TOU COMPUTE THE BINARY COUNT AFTER 752 L3-20 DO TOU COMPUTE THE BINARY COUNT AFTER 753 L3-20 DO TOU COMPUTE THE BINARY COUNT AFTER 753 L3-21 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE BINARY COUNT AFTER 754 L3-22 DO TOU COMPUTE THE STATE OF EACH FLO 755 L3-23 DO TOU DETERMINE THE STATE OF EACH FLI 755 L3-24 DO TOU DETERMINE THE APPROPRIATE AND 6 755 L3-24 DO TOU DETERMINE THE APPROPRIATE AND 6 755 L3-24 DO TOU MODE THE APPROPRIATE AND 6 755 L3-24 DO TOU MODE THE APPROPRIATE AND 6 755 L3-24 DO TOU MODE THE APPROPRIATE AND 6 755 L3-24 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-24 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-24 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE THE APPROPRIATE AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MITH A SHATOLTH AND 6 755 L3-25 DO TOU MODE MODE MODE MODE MODE MODE MODE MODE	759 H1-62 DO 700 MORK WITH TAPECOLDIAL WE FEDWARD DO 700 WORK WITH PULSED OSCILLA 760 H1-04 DO 700 WORK WITH PULSED OSCILLA PESENERATIVE FEEDWARK

TASK GHOUP SUMMANY

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DY-15K	MI-05 DO YOU WORK WITH BLOCKING OSCILLATORS MI-06 DU YOU USE ON REFER TO FALL OR FLYBACK TINE MI-07 DO YOU USE ON REFER TO FALL OR FLYBACK MI-08 DO YOU USE ON REFER TO SWEEP TIME MINUS DO YOU USE ON REFER TO PHYSICAL LENGTH OF SAXAVEFOHMS MINIS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO LINEAR SLOPE OF SAXTOOT MINUS DO YOU USE ON REFER TO SATE LENGTH OF SAWTOOT	720 72-01 00 700 USE SIGNAL GENAL GENAL GENERAL OPERAL OPE	# 779 #3-01 IN TOUR PRESENT JOB. DO TOU PERFORM ANY TAKKS DEALING # 711 #3-02 IN TOUR PRESENT JOB. DO TOU PERFORM ANY TAKKS DEALING # 761 #3-02 DO TOU INSPECT HOTORS # 761 #3-03 DO TOU OPERATE HOTORS # 763 #3-04 DO TOU OPERATE HOTORS # 763 #3-05 DO TOU PERFORM ON REPLACE COMPLETE MOTORS # 765 #3-07 DO TOU PERFORM ON REPLACE COMPLETE MOTORS # 765 #3-07 DO TOU REMOVE ON REPLACE COMPLETE MOTORS # 765 #3-07 DO TOU PERFORM ANY TAKKS ON REPLACE # 766 #3-07 DO TOU PERFORM ANY TAKKS ON REPLACE # 766 #3-10 DO TOU PERFORM ANY TAKKS ON REPLACE # 766 #3-10 DO TOU PERFORM ANY TAKKS ON BRUSHES # 760 #3-12 DO TOU PERFORM ANY TAKKS ON BRUSHES # 761 #3-14 DO TOU PERFORM ANY TAKKS ON COMPUTATORS # 773 #3-14 DO TOU PERFORM ANY TAKKS ON COMPUTATORS # 774 #3-15 DO TOU PERFORM ANY TAKKS ON COMPUTATORS # 775 #3-14 DO TOU PERFORM ANY TAKKS ON COMPUTATORS # 775 #3-14 DO TOU PERFORM ANY TAKKS ON COMPUTATORS

PCT HAMS RESPONDING TYEST BY SELECTED GRPS

TASK GROUP SUMMANT PERCENTING

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A21-15x	H 294 M3-10 OG YOU DETERMINE OF HEASURE THE MACHITUDE OF THE	TO YOU DETERMINE OR MEASURE	THE STATE OF THE PROPERTY OF THE PACKLINGS	TAP HALL OU TOU MORK HITH SYNCHHONOUS MUTORS	298 H3-20 DO TOU MORK #17H INDUCTION	799 M3-21 DO TOU MORK MITH SPLIT-PHASE HOTORS	400 43-22 DO YOU WORK WITH SOME COMBI	M3-23 UE TOU INSPECT GENERATORS	H HOZ HB-Z+ DD TOU CLEAM OR LUBRICATE GENERATORS	DO YOU OPERATE GENERATORS	OR REPLACE CO	YOU REHOVE OR REPLACE GEN	TROUBLE	CONNECTIONS OF GENERATORS	STATES OF THE PRODUCE STAGOT DOWN TO COMPONENT PARTS OF	SUB MI-UI DO TOU WORK WITH METERS IN YOUR PRESENT JOB	809 NI-UZ DO YOU CONCEPTUALIZE OF CONSIDER THE FUN	PERHANINT MAGNETS	N 810 NI-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	MOVING COILS	A BILL WI-DA DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	0.00	A STATE OF SOUR FARENCE THE STATE OF ATTRIBUTE	The state of the s	00 60-14		MI-10 DO TOU USE OR REFER TO VOLT	(EXPRESSED IN UNITS OF OHMS PER VOLT)	AMPLIFIERS IN YOUR PRESENT JOB	" 819 "Z-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE	REACTORS ASSOCIATE AND THE MENTIL AND THIRKS OR SATURABLE	REACTORS	4 621 42-04 DO TOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE			" 423 42-06 DO YOU REHOVE OR REPLACE MAGNETIC AMPLIFIERS OR	SATURABLE REACTORS ** *** ******************************	SATURABLE REACTOR COMPONENTS

PCT MBRS RESPONDING TEST BY SELECTED GRPS

GPSHI3 PAGE 30

TASK GHOUP SUMMANT PERCENT MEMBERS PERFURMING

											MAVESHAPING CIRCUITS											SINGLE SIDEBAND SYSTEMS						
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DY-TSK	N 425 N2-04 DO TOU USE OH REFER TO HTSTERESIS CURVES OR LOOPS N 426 N2-09 DO TOU INTERPRET SCHEMATIC ORAMINGS TO DEVELOP OUTPUT MAREPROPIS ACROSS REACTOR MINDINGS ON LOAD RESISTORS OF	TOU MEASURE OUTPUT A	N 828 NZ-11 DO TOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP DUTPUT	MAYERORMS FOR MAGNETIC AMPLIFIENS MASS WEND OUT YOU USE OR WERER TO COERCIVE FONCE IN SATURABLE	WASO NATIONS OF YOU USE ON REFER TO RESIDUAL MAGNETISM IN	+ B33 N2-10 DO TOU USE OR REFER TO FLUX DENSITY IN SATURABLE	N H32 NZ-ESTUDING OF THEFER TO POINT OF SATURATION IN	H H33 NZ-16 DO YOU USE OF PEFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS	1 534 13-01 DO YOU NORK MITH MAVESHAPING CIRCUITS IN YOUR PRESENT	13-UZ DO TOU USE OF REFER TO THANS!	636 N3-03 DO TOU USE ON REFER TO PULSE	43-05 00 400 0SE	Stringers Sector transfers of again and again way and Annual Sector	13-U7 DG YOU USE OR HEFFR TO	441 43-UB DO TOU USE OR REFER TO	CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT		SENERAL DO COL COL SOLVER ALLE RECENERAL SENERAL SENER	"3-11 OC TOU WORK WITH RECTAN	PASS DI-CLI DO TOU BORK ON SINGLE STOLBAND SYSTEMS IN YOUR		647 UI-03 DO TOU CLEAN SSB TRANSMIT OR RECEIVE SY	01-04 00 YOU ALIGN SSB TRANSMIT OR RECEIVE SY	U HAY DI-05 DO YOU THOUBLESHOOT TO SSB THANSHIT OR RECEIVE	0 650 UI-U6 DU TOU TROUBLESHOOT TO 556 THANSHIT OR RECEIVE	COMPONENTS  SUPPOSE OF THE OTHER OF THE PLANT OF THE PLAN	STSTEMS	U 852 OFFUS DO YOU HEMOVE ON HEPLACE SSB THANSHIT OR HECETYE COMPUNENTS

GPSH13 PAGE 31

TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

		PULSE MODULATION SYSTEMS
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TASK GROUP SUNHANY PERCENT MEMBERS PERFORMING

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UV-TSR	U 889 02-15 UD YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PORER SUPPLIES	REORM TASKS ON	U HAT DE LIT DO VERFORM IASKS ON PULSE MODULATION SYSTEM	0 492 02-18 DO YOU PEHFORM TASKS ON PULSE HODULATION SYSTEM	U 893 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	C 594 02-20 DG YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	1	THANSHITTER TUBES	APPLIFIERS	U 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS	U HPH 02-24 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	IF AMPLIFIEMS 0 899 0.25 DO TOU PEMFORM TASKS ON PULSE MODULATION SYSTEM	2	VIDEO AMPLIFIERS	POWER VIDEO AMPLIFIERS	U 902 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DOON'T REMEMBER WHITH PAISE MODILITION EXETEM STACE		90 450 00 00 00 00 00 00	02-31 DO YOU USE OF HEERE TO PULSE WINTE FEBRUAR	906 02-32 Do You USE ON REFER TO PULSE	907 02-33 DO TOU USE OR HEFER TO	0 908 02-34 00 YOU USE OF REFER TO AVERAGE POWER	PECURRENCE + REQUENCY (PRF)	U 910 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE		PEAK POWER OF PULS	C 912 CARSO DO TOU TRACE SIGNALS OR CURRENT PAINS THROUGH PULSE MODULATION TRANSMITTER SCHEMAIL OF STARMS	C 913 02-39 06 YOU TRACE SIGNALS OF CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	0 914 03-01 DO TOU WORK HITH ANTENNAS IN YOUR PRESENT JOB 0 915 03-02 DO TOU INSPECT ANTENNAS	

PCT HBRS RESPONDING TEST BY SELECTED GAPS

TASK GHOUP SUMMARY PERCENTING

SPC SPC SPC SPC SPC SPC SPC SPC 207 201 201 202 203 204 205 207				0	MAGNETIC LINES 0 0 0 0 0 0 0 0 FOR ANTENNAS	FHAT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RULE THAT ANTENNAS 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	RULE THAT ANTENHAS 0 0 0 0 0 1 0 AS CAPACITIVE LOADS	000		00		September 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ECTRIC (E) 0 0 0 0 1 0	ELECTRIC (E) 0 0 0 1 0	ARLY 1 1 0 1 1 0	ULARLY 0 0 0 0 0 1 0	UF ANTENNAS O U O O 1 O	MS 0 0 0 0 1 0 ENGTH FOR
N7-15K	DO YOU CLEAN ANTENNAS DO YOU PHYSICALLY ALI	919 43-00 DO TOU INDODECENDO! TO ANTENNA COMPONE 920 03-07 DO YOU PROUBLESHOOT TO ANTENNA COMPONE 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	922 03-09 00 YOU PEHOVE OR REPLACE COMPONENTS OF 923 03-10 00 YOU USE OR REFER TO TECHNICAL DATA OR ELECTRIC FIFTO THE	USE OR REFER TO TECHNICAL DATA ONS OF H ON MAGNETIC FIFLD LINE	TO YOU DETERMINE THE DIRECTION OF THE	ENNAS HHICH ARE OF CORRECT LENGTH (HALF-	REFER TO THE GENERAL	TOU USE OR REFER TO THE GENERAL RESHORTER THAN A HALF-WAVE ACT	929 03-16 00	931 03-18 DO YOU WORK WITH	0 932 U3-19 DO YOU WORK WITH END-FIRE ARRAYS	934 03-21 00 YOU WORK HITH COLLINEAR	935 03-22 DO YOU USE OR R INDUCTION FIELDS WHE	MEASUNE ELECTROMAGN	U3-24 DO YOU USE OR REFER TO THE TERM RACIATION FIELDS "HEN MORKING WITH A	0 938 03-25 DO YOU MEASUME ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	REFER TO	MAGNETIC (H)	ANY OF T	U 942 03-29 ARE ANY OF THE ANTENNAS YOU MORK ON CIRCULARLY	0 943 03-30 DO YOU HEASURE OR DETERMINE THE POLARITY OF	U 944 03.31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH SPECIFIC MAYELENGTHS

PCT MBRS RESPONDING TEST BY SELECTED GAPS

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TASK GROUP SUMMANY PERCENT HEMBERS PERFORMING

									TRANSMISSION LINES																
SPC 207	0	٥	٥	٥	0	00	00	0		0	0	D	0	0	0	0	00	0	0	9	0	0	0	0	0
SPC 206	0	Э	0	0	0	0	20	0		0	0	0	0	0	0	0 0	0 0	0	0	3	0	٥	0	0	0
5 P C 205	0	o	0	0	0	0	00	~		0	0	0	-	-	-	-		-	-	~	-	-	-	-	-
SPC 204	0	0	0	-	-	0	<b>3</b> C	•		0	-	0	0	c	~	- 0	o ~	ď	,	-	м	S	-	-	0
5PC 203	0	0	0	0	0	00	٥٠	-		-	-	-	-	-	*	<b>,</b>	2 ~	7	7	-	~	S	0	0	0
SPC 202	0	0	0	0	0	0	33	7		0	0	э	0	э	-	- 0	רי כ	-	7	-	-	~	-	-	0
201	0	0	0	0	0	0	0) =	2		0	-	٥	-	-	2	<b>-</b> -	- +	7	2	-	~	٦	-	-	0
DY-TSK	D 945 03-32 DG THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC	ARRAYS YOU WORK WITH CONTAIN DIRECTORS	0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC		03-36 00 YOU WORK ON	BIDIRECTIONAL	FORK ON	453 PI-DI IN YOUR PRESENT	P 4.4	P 454 P1-02 OU TOU REFER TO OR USE COPPER LOSS ON 12R LOSS IN	FRANCISSION LINES FRANCISSION CON REFERENCE ON USE SKIN EFFECTS OF MIGH FREQUENCY	P 956 PI-CATENIS IN TRANSMISSION LINES P 956 PI-CATENIS IN TRANSMISSION LINES	P 457 PI-US DO YOU USE ON MEFER TO DIELECTRIC LOSS IN	HARNOTISSION LINES HEFER TO LEAKAGE LUSSES IN THANSMISSION	PSP PI-07 DO YOU WORK MITH	THE PI-OR DO YOU TORK TIT	00 400 mount 111	LIVES PI-11 DO YOU HORK MITH RIGIO COAXIAL CABLE TRANSMISSION	LINES PI-12 DC YOU TROUBLESHOOT TRANSHISSION L	965 PI-13 DO YOU ANALYZE THANSHISSION LINES T	THE STORTED CAPACITIVE, INDUCTIVED THE STATES OF LINES THE THANKSISSION LINES THE THANKSISSION LINES	P 567 PI-15 DO TOU USE ON REFER TO SCHEMATIC SYNBOLS FOR LINE	STAND	P 964 PI-17 DO TOU CALCULATE STANDING MAYE RATIOS (SMR) OF	P 470 PI-16 DO TOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - MAYELENGTH MATCHING THANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS

ACT MANS RESPONDING TEST BY SELECTED GRPS

TASK GHOUP SUMMANY SEMCENT NEMBERS PERFORMING

SPC SPC 206 207	0 0	٥	0	0 0	0 0	0	0 0	0	0 0	0 0		0	000		0		0		<b>o</b> c			0.0								
SPC SP 205 20	•	-	-	٣	0	0	0	a	0	0		-	00		0	0	0	0 0		0	0	0	o c	0	0	0	0 0	0 0		0
SPC 5	,	0	-	0	0	-	-	-	0	0		-	-0		-	0	0	<b>5</b> 0	0	0	-	00	, 0	0	0	0	<b>o</b> c	00	ن	0
5 P.C 203	٣	-	0	7	-	-	0	0	0	-		•	0 -		0	0	0	00	0	0	0	00	0	0	0	0	0 0	00	0	0
5 P.C 202	•	0	-	-	0	0	0	0	0	0		-	00	-	0	0	0 0	0 0	0	0	0	<b>&gt;</b> c		0	0	0	<b>o</b> c	0	0	0
5 P C 2 0 1	•	-	-	7	0	-	0	0	0	0		-	00	1	0	0	0 0	0	0	0	0	<b>3</b> C	0	0	0	90	<b>o</b> c	0	0	0
07-75K	971 PIRIO DO YOU WORK WITH THANSHISSION LINES MAJCH ARE HATCHED TO LOADS USING MATCHING TOLICECOMPOS	472 PI-20 DO YOU WORK MITH TRANSFISSION LINES AMICH ARE MATCHED TO LOADS USING DEFTA MATCHINGS	973 PI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE MEDED FOR PARTICULAR JOUS SITHOUT REFERRING TO TECHNICAL DATA	1 1 2	475 FI-23 DG YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (20) OF	TARNSHISSION LINES	977 PI-25 DO TOU USE ON REFER TO THE TERM VELOCITY FACTOR (K)	OF THANNAISSION LINES 478 PI-22 DO POU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION 1185 FOR BARTISH AS PRODUCED.	479 PI-27 DO TOU CONSTRUCT TRANSHISSION LINES OF PARTICULAR ELECTRICAL CONSTRUCT FRANSHISSION LINES OF PARTICULAR	SEC PITZE OF THE SECRETARY FOR THE GENERAL FOLE THAT AS THE FREGUENCY INCREASES AND THE BURGERS I PROTH OF	TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH	98; PIST OF YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION	.82 PL-30 DO YOU WORK WITH RESONANT TRANSHISSION LINES 443 PL-31 DO YOU WORK WITH TRANSHISSION LINES WHICH ARE HATCHED	TO LOADS USING STUB MATCHING		P2-UZ DO YOU INSPECT WAVEGUIDES OR CAVIT	480 NOTICE OF THE PARTY FACTORS OF TAXABLE OF THE PARTY O	PZ=05 DO YOU THIST WAVEGUIDES OF CAVITY	PZ-36 DO YOU PRESSURIZE MAVEGUIDES	P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY	PZ-GH DG YOU TROUBLESHOOT WAVEGUIDES ON	442 P2=14 DO TOU MEHOVE ON INSTALL COMPLETE MAYEGUIDES	PZ-11 DO YOU REMOVE OR INSTALL	PZ-12 DO YOU REHOVE OR INSTALL	PZ-13 DG YOU REHOVE OR INSTALL H BEN	P2-14 DO YOU REMOVE OF INSTALL OTHER	SEED PARTY OF THE REMOVE OF TASTALL CHORE COINTS	PZ-17 DO YOU REMOVE OR INSTALL	: P2-18 DG YOU REMOVE OR INSTALL	PZ-19 00 100 USE OR REFER TO

TASK GHOUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-75K	SPC 201	SPC 202	SPC 203	204	5PC 205	SPC 206	SPC 207	
PIUDA P2-20 DO YOU USE OR KEFER TO "B" WALL OF WAVEGUIDES PIUDY P2-21 DO YOU USE OR REFER TO CUTOFF PREQUENCY OF WAVEGUIDES PIUDS P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF	000	000	000	000	000	000	000	
PICUS P2-23 OV VOU USE OR REFER TO POWER-DETERMINING WALL OF	0	0	0	0	0	0	0	
FIGOR P2-24 DO USE OR REFER TO ELECTRIC FIELD BOUNDARY	0	9	0	0	0	0	0	
PILOB P2-25 TOWN YOU USE ON REFER TO MAGNETIC FIELD BOUNDARY	0	0	0	o	0	0	0	
FIRST PACETIONS OF SEFER TO DUPLEXER FIELD BOUNDARY	0	э	0	0	0	0	0	
PIGIG P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST HAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF "7 WAVELENGTHS	0	0	0	-	c	٥	0	
PICT PACE OF THE OFFER TO THE GENERAL RULE THAT MOST "A" MALLS HANGE FROM "2 TO "5 MAVELENGTHS IN SIZE, WITH "35	0	0	0	0	0	0	o	
PIBLE PROPERTY AND THE MATERIAL (SUCH AS BRASS)	9	0	э	0	0	2	o	
PIULS PRACTICES AND COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC	0	0	0	0	0	0	0	
PIDIA P2-31 DO TOU USE THE MIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF REPIELD, OR DIRECTION OF REPERFORMENT OF MEMORY OF THE PROPERTY OF THE PROP	o	0	0	0	0	0	0	
-	0	0	0	0	0	0	э	
PIUTO PZ=33 OR TOU MEASURE THE TIME PHASE OF "E" OR "M" LINES IN	0	0	0	0	0	0	0	
PIULY PERCULPES. OF REFER TO THE SPACE QUADRATURE OF "E" OH	0	0	0	0	0	0	c	
PICIS PZ-32 ARE HIGH POWER PROBES USED ON MAVEGUIDES ON CAVITY	Э	0	0	0	0	0	0	
PICTO PARTORS FOR BOTH WITH PICTOR WAVEGUIDES ON CAVITY DELEGATORS AND THE PICTORS OF CAVITY	0	0	0	0	0	0	0	
FIGED PRINCIPLES FOR MOUNT WAVEGUIDES OF CAVITY RESONATORS	0	0	0	0	0	0	0	
PIGZI PZ-44 ARE APERTURES (MINDOWS OR IRISES) USED ON MAVEGUIDES	o	0	0	0	0	0	o	
PIUZZ PZ-19 AME DON'T REMEMBER THE KIND OF ENERGY COUPLING USED	0	0	0	٥	0	0	0	
PIGES P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MCUNTED IN	2	0	0	0	0	٥	0	
TECHNICAL DATA PIOZY PZ-41 DO TOU DETERMINE THE POSITIONING OF LOOPS IN MAYEGUIDES OR CAVITY RESONATORS MITHOUT REFERRING TO	0	0	0	0	0	9	0	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

										MICROWAVE AMPLIFIERS AND	USCILLAIDRS																			
5Pc 207	0	0	0	0		00	00		0	c		0 (	0	0	00	0 0	0	o e	, (	o c	00	0	0	0	0	0	0	0 0	00	0
SPC 206	0	2	0	0	0	2	00	э	0	0	0	00	•	0	00	0	0 0	0	c	0	0	0	0	э (	0	0	00	0 0	00	0
5PC 205	c	0	-	-	-			-	-	-			-	0	00	0	0	0 0			0	0	0	0	0	0	0	0 -		-
SPC 204	0	0	0	0	0	o	00	0	-	0	0	0 0	•	0	00		00	0		0 0	0	0	0	0	0	0	00	<b>o</b> c	00	0
SPC 203	0	0	0	0	c	00	00	0	0	a	0	0 0	0	0	00	0	00	0 0		0 0	0	0	0	0	0	0	0	0 0	00	0
5PC 202	0	0	0	0	c	00	00	э	-	0	0	00	•	0	00	0	0 0			0	0	0	0	0	0	0	30	<b>o</b> c	0	0
201	٥	0	0	0	c	00	00	0	-	c	0	0 0	•	0	00	0	0 3	0	•	0	0	0	0	0	0	0	00	<b>)</b> c	00	0
0Y-15K	PIGSS P2-42 06 YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN MAVEGUIDES OR CAVITY RESONATORS MITHOUT REFERRING TO	PICSE PERMITE DATA PICSE PERMITE DATA PICSE PERMITE PICSE PERMITE DATA	PIGEZ PZ-FACHATING JOINTS USED IN MAVEGUIDES OR CAVITY	KIND OF	** * * * * * * * * * * * * * * * * * *	INDUCTIVE	PIUSI P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING PIUSI P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER	THE METHOD OF TUNING P2-50 DO YOU MEASURE THE FREQUENCY OF SIGN RESONATORS	FIGSH P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, THAVELING WAVE TUBES (TMT), PARAMETHIC AMPLIFIERS, OR	MAGNETRONS	P3-03 DG TOU USE OR REFER TO E	OR REFER TO	CINCUITRY	PIUSO PS-OB DO YOU USE OR HEFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	PIGNO P3-G7 DO YOU USE OR REFER TO ELECTRON BUNCHING	P3-09 00 100 WORK WITH	P3-10 00 YOU FORK #1TH	000	AMPLIFIERS	000	P3-15 DO YOU INSPECT KLYSTROM	P3-16 DO YOU CLEAN KLYSTRONS	P3-17 00 700	P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	PIUSZ P3-14 DO 100 PEHFORM OPERATIONAL CHECKS OF KLYSTRONS OR	•	P3-21 DO YOU REMOVE ON REPLACE COMPLETE KLT	PICSS P3-22 DO TOU REHOVE OF HEPLACE RETSINON OF INT COMPONENTS	P3-24 DO YOU CLEAN PAR	PIGSB P3-25 DO TOU ADJUST PARAMETRIC AMPLIFIERS

HET HBHS RESPONDING .TES. BY SELECTED GHPS

TASK GROUP SUMMANY PERCENT NEWENS PERCENT NEMBERS PERFORMING

SPC SPC SPC SPC SPC SPC SPC 201 201 201 202 204 205 205 204 205 205 205 205 205 205 205 205 205 205	00		0 1 0 0 0 0	00		000	00	0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0
07-TSK	PIDSS P3-26 DG YOU TUNE PARAMETRIC AMPLIFICAS PILGO P3.27 DG YOU PEHFORM OPERATIONAL CHECKS OF PARAMETRIC	AMPLIFIENS PICE P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS PICE P3-29 DO YOU REHOVE OR REPLACE COMPLETE PARAMETRIC	PICAS PS-30 DO YOU REMOVE OF REPLACE PARAMETRIC AMPLIFIER	PICA P3-31 DG YOU INSPECT MAGNETRONS FILMS P3-32 DG YOU CLEAN MAGNETRONS	USS P3-33 DO YOU ADLUST TAGNETRONS USS P3-34 DO YOU TONE TAGNETRONS	P3-35 DC YOU PENFORM OPERATIONAL CHECKS P3-36 DC YOU TROUBLESHOOT MAGNETRONS	070 P3-37 DO YOU REHOVE OR REPORT	Parago of You USE ON REFER TO THE		PICZY P3-41 CO TOU USE ON MEFER TO THE OPENATING PRINCIPLES OF	PIUTS PARTE OU TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PINTS PARTY ON TOU USE ON REFER TO THE OPENATING PRINCIPLES OF	FIGURE THE ALTSTRONS DRIFT SPACES FIRST PRIMARY DU VOU USE UN REFER TO THE OPERATING PRINCIPLES OF	PICTR PARADO TOU USE ON REFER TO THE OPERATING PRINCIPLES OF	PILTY P3-40 DO YOU USE ON MEREN TO THE OPENATING PRINCIPLES OF		PICKL P3-46 DO YOU USE ON HEREK TO THE OPERATING PRINCIPLES OF PERSON REPLECED REFLECTOR! PLATS	OR PEFER	PIURS PS-250 DO FOUND OR REFER TO THE OPERATING PRINCIPLES OF	OH HEFER	USE OF PEFER	PILES PARTS DO YOU USE OF PEFER TO THE OPERATING PRINCIPLES OF	

TASK GHOUP SUMMARY PERCENT NEMBERS PERFORMING

SPC SPC SPC SPC SPC SPC 201 202 203 204 205 206 207	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0		0 0 0 0 0	00		00		86 74 73 9	75 76 76 73 70	76 75 77 85 68 62 86	75 75 74 86 64 62 86
07=75K	PIURE PASS DO TOU USE ON REFER TO THE OPERATING PRINCIPLES OF	FIGER PASSED OF TOU USE OF REFER OF CRATING PRINCIPLES OF	FIGNO PASSING-MAVE TOBES FILAMENTS FIGNO PASSING PRINCIPLES OF THE OFFICE OF THE OFFICE PRINCIPLES OF	USE	USE OR REFER TO THE	250	PICST PSTATE TO THE USES HELIKES  PICST PSTATE TO THE USE OF THE OPERATING PRINCIPLES OF	PIG95 P3-KELING-MAYE COES COLLECTORS PIG95 P3-KE DO TOU USE ON REFER TO THE OPERATING PRINCIPLES OF	20.0		PILES PANS DO TOU PENFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	CAVITIES CAVITIES P1099 P3-66 DO TOU PENFORM TASKS ON PARAMETRIC AMPLIFIER JULEM	CAVITIES CAVITIES PILOS P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTON	DIODES PILLI P3-68 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	ISOLATORS PILOZ P3-69 DO TOU PENFORM TASKS ON PARANETRIC AMPLIFIER REVERSE-	P3-70 DO YOU PERFORM TASKS	P3-72 GO TOU PERFORM TASKS ON COUPLING LOOPS	FILES P3-73 DC YOU PERFORM TASKS ON MEATER LEADS	P3-75 DO YOU PERFORM TASKS ON CATHODES	01-01 00 700 USE OR REFER TO S 41-02 De 700 USE OR REFER TO S 01-03 DE 700 USE OR REFER TO	HEGISTERS 41-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF		SHIFT REGISTERS WILLS WITHOUGH LOGIC DIAGRAMS OF DILLS WITHROUGH LOGIC DIAGRAMS OF DILLER TYPE OF REGISTERS

PCT MBRS RESPONDING TEST BY SELECTED GRPS

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PERCENT MEMBERS PERFURNING

					STORAGE DEVICES									DIGITAL TO ANALOG CONVERTERS																		
SPC 207	1,	98	6.7		36	63	4	;	?	57	25	•	1		1		,	,	7	3		<b>.</b>	-	35		,	;	-	-	71		-
5PC 206	15	-	17	3	36	8	5	4	2	99	3	'n	•		-		;	,	2	=		-	=	:	-		-	=	•	•		5.
5PC 205	•	99	3.6	7 -	35	57	<del>,</del>	'n	•	-	4	;	15		13		:	5	Œ	•		•	_	•	20	-	-	01	=	-		0
204		87	75	87	4	09	3.8	6	9	62	2	2	7.1		17		;	;	00	۰		=	01		-	•	0	7	0	=		<u>•</u>
SPC 203	53	7.4	8.9	9	56	59	53	4	9	24	200		-		<b>5</b>		30	2	12	۰		7	=	-	:	-	0	=	15	22		-
202	6.3	7.8	3	100	45	19	19	1,		53	56	•	20		10		96	,	30	۰		=	۰	:	2	:	:	2	13	2		5
201	•	11	8	73	38	9	5.6	30	2	53	5	2	-		16		00		•	•		=	•	4	0	:	:	2	13	15		•
	GILLS GI-UT DO YOU DETERNINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	41117 42-61 DO YOU NORK WITH DIGITAL COUNTERS, REGISTERS, OR	YOU USE OR REFER TO DELA	42-03 DO YOU USE OR REFER TO MAGN	02-04 DO YOU USE OR REFER	32-05 DO YOU USE OR REFER TO MAGN	LIIZZ 42-LA DO TOU USE OR REFER TO ACCESS TIME OR SPEED OR	MEMORY SYSTEMS	SYSTEMS	-2-UB OC YOU USE ON MEFEN TO VOLA	ч.	ANALO	20	באים אות פואדא	41128 43-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE	RESISTORS		LILLY AS-US DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME	AALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS 01131 33-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME	ANALOG-TO-DIGITAL (A/D) CONVERTER	11132 43-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE	TIME AVALUGATIONDIGITAL (AZD) CONVENTEN CINCUITS	TIME ANALUG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVENTER	CIRCUITS  ON YOU HER ON SERVE TO SOURCE CURETON OF A SAN	CONVERTERS	JII36 43-11 DO YOU USE OF PEFER TO HOLD FUNCTION OF AZD	41137 43-12 DO YOU USE OF PEFEP TO COMPARE FUNCTION OF A/D	CONVERTENS  CONVER	CONVERTERS	GII39 G3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALDG-TO-

TASK GROUP SUNHARY PENCENTING

	PHANTASTRONS		SCHMITT TRIGGERS			CABLE FABRICATION	INPIT / DIT DEVICES			PHOTO SENSITIVE DEVICES					CHOPPER CIRCUITS)								INFRARED								
SPC 207	0	10	57	4	57	9.0	19	67	٥	2.1	0	0	0	0	0	0	0	,	0	0	-	0	0 0	o <b>c</b>	-		1	0	1	0	,
200	0	7.9	9	9	43	7	*	12	•_	6 7	-	•	•	9	0	•	•		~	•	0	0 0	<b>o</b> c	0	0	c	•	0	0	0	
5PC 205	-	10	54	0.	18	91	9	10	2		-	-	-	-	-	0	-		0	0	0	0	<b>-</b> c	<b>5</b> C	0		c	0	D	0	
204	0	24	39	9.0	0.1	2.	9 2	30	2	2.0	2	-	0	-	0	*	7		•	7	0	00	<b>o</b> c	0	0	•		0	0	0	
SPC 203	0	23	,	54	36	39	7.3	87	•	27	5	0	0	0	0	-	-		~	-	-	0 0	<b>o</b> c	0 0	, –		-	0	-	0	
202	o	58	*	56	31	31	5.8	7.7	=	3.1	3	7	-	-	-	٦	~		7	~	0	00	<b>o</b> c	0	5		•	0	0	3	
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## SUPPLEMENTARY

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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, If different from Report)	
18. SUPPLEMENTARY NOTES	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  Electronic principles Electronics	
Basic electronics Air Force training	
Avionics Teaching methods	
Electronic equipment Training	
Electronic Technicians	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	
This report summarizes the results of the administration of the Electronic	
Principles Inventory to airmen assigned as Electronic Computer Systems Specialist (AFSC 30554). The report gives a detailed listing of the	
technical tasks and knowledge needed to perform the jobs within the	
specialty or career ladder.	

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This specialty has the following functions:

Installs, maintains, and repairs electronic computer systems, including transmission, processing, and display equipment. Performs preventive maintenance on electronic computer systems equipment. Maintains inspection and maintenance records. Supervises electronic computer systems repair personnel.

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